

Good Morning Jason,

In response to your email sent yesterday, the attachments will give you an idea of what you have already received. As Scott describes below, we had issues with pH control for a period of time yesterday, ending around 1 am this morning. Production actually started around 3 am this morning. Now that we are in production mode you should be receiving water in the 5.5-6.5 pH range at about 15-20,000 gph. The production run is scheduled to conclude early Friday morning. We will then transition to CIP mode. The CIP you will receive will contain higher loading than the CIP cycle just completed in that we will be cleaning solids from the equipment vs. simply cleaning a previously clean surface.

Please let me know if you have questions. Have a good day.

**Chris Oehler**  
Plant Manager



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**From:** Duncan, Scott

**Sent:** Monday, January 30, 2017 11:20 AM

**To:** George Hoyos (GHoyes@bigoxenergy.com) <GHoyes@bigoxenergy.com>; Jason Osbahr (JOsbahr@bigoxenergy.com) <JOsbahr@bigoxenergy.com>; Desiree McCaslen (dmccaslen@sioux-city.org) <dmccaslen@sioux-city.org>; Tom Pingel <TPINGEL@sioux-city.org>; Robert Livermore (blivermore@southsiouxcity.org) <blivermore@southsiouxcity.org>

**Cc:** MacClure, Jeremy <Jeremy.MacClure@chsinc.com>; Oehler, Christopher <Christopher.Oehler@chsinc.com>

**Subject:** High pH waste water

Hello,

We discovered an issue with the HCL pump used in balancing waste water pH. From approximately 11am yesterday morning until shortly after midnight we had waste water with a high pH leave the plant. Shortly after midnight the situation resolved and normal pH was restored on waste water. Flows during this period averaged a bit under 8,000 gallons an hour. As of 1am waste water has been running in the 6-7 range. We are looking at placing some additional controls in place to prevent a re-occurrence.

Sincerely,

**Scott Duncan**  
EHS Coordinator  
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